

INTERNATIONAL SEARCH REPORT

 ational Application No
 PCT/DE 02/02063

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04L25/03 H04L1/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H03M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 537 445 A (BLAKER DAVID M ET AL) 16 July 1996 (1996-07-16) column 4, line 4 - line 22 column 4, line 34 - line 39 column 4, line 47 - line 51 column 7, line 1 - line 6; figure 2 ---	1,3-6,8, 10, 12-14, 17,18
X	US 6 195 782 B1 (SAWAN TONY E ET AL) 27 February 2001 (2001-02-27)	1,3-5, 10,12, 13,17,18
A	column 3, line 9 - line 16 column 3, line 32 - line 37 column 7, line 38 - line 51 column 10, line 22 - column 11, line 14; figure 8 --- -/--	7

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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* & * document member of the same patent family

Date of the actual completion of the international search

6 September 2002

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 905 757 A (PISEK ERAN ET AL) 18 May 1999 (1999-05-18) column 1, line 10 - line 21 column 2, line 35 - line 40 column 3, line 9 - line 17 column 3, line 29 - line 40 column 4, line 19 - line 25 figure 1 -----	1, 3-6, 9, / 10, 12-14, 17, 19
X	US 5 539 780 A (DUTKIEWICZ MAREK) 23 July 1996 (1996-07-23) column 3, line 50 - column 4, line 5; figure 2 -----	1, 10

INTERNATIONAL SEARCH REPORT
Information on patent family members

International Application No
PCT/DE 02/02063

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5537445	A	16-07-1996	EP 0656712 A1	07-06-1995
			JP 3294022 B2	17-06-2002
			JP 7226689 A	22-08-1995
US 6195782	B1	27-02-2001	NONE	
US 5905757	A	18-05-1999	AU 3587597 A	24-04-1998
			CA 2238299 A1	09-04-1998
			DE 19781047 T0	17-12-1998
			ES 2147693 A1	16-09-2000
			FI 981263 A	03-06-1998
			FR 2754366 A1	10-04-1998
			GB 2322057 A ,B	12-08-1998
			IT RM970553 A1	15-03-1999
			JP 2000501918 T	15-02-2000
			RU 2178949 C2	27-01-2002
			SE 517510 C2	11-06-2002
			SE 9801958 A	03-08-1998
			WO 9815056 A1	09-04-1998
US 5539780	A	23-07-1996	CA 2131488 A1	29-04-1995

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